

METHOD AND SYSTEM FOR ENABLING CENTRALIZED CONTROL OF WIRELESS LOCAL AREA NETWORKS

ABSTRACT OF THE DISCLOSURE

A wireless local area network (WLAN) includes mobile devices that are allowed
5 to transfer wireless connections between WLAN subnets or channels having different
access points. The access points connect to a central controller or roaming server that
supports seamless hand-offs of mobile devices from one access point to another access
point. The roaming server supports the reassignment of session data parameters from
one access point to another (e.g., access point address spoofing) so that the mobile
10 device can use the same parameters for communicating to a new access point. The
roaming server also supports the seamless handoff of a mobile device from one access
point to another by using a master-slave switch technique across two piconets. The
roaming server also facilitates the control of access points by establishing a host
controller interface and wireless protocol stack in the roaming server and another,
15 complementary wireless protocol stack in the access point. The roaming server then
encapsulates host controller commands in a packet based network protocol used for
communication between the roaming server and the access points.